**NenuFAR Key Programme Description**

**v.3**

|  |  |
| --- | --- |
| **General information** |  |
| Name of program |  |
| Short description of programme |  |
| Target of Opportunity ? |  |
| Links with other key programmes? (if any) |  |
| Relevance to the preparation of SKA ? (if any) |  |
| Contact person: |  |
| Team: (please mention any PhD or postdocs)? |  |
| **Targets & sensitivity** |  |
| Number of sources/fields |  |
| Low DEC sources? |  |
|  |  |
| Requested sensitivity (mJy) |  |
|  |  |
| Required calibrators ?* Primary flux calibrator
* Phase calibrator (imaging)
* Polarization calibrator (when available)
 |  |
|  |
|  |
|  |
|  |  |
| **Observation configuration** |  |
| Total requested time (hr) up to end 2021 |  |
| Pilot or test program ?  |  |
|  |  |
| Type of observation: *imaging, beamformed, TBB* |  |
| Nature of pointing: *tracking, transit* |  |
|  |  |
| Required NenuFAR receiver |  |
| Type of data product: *Vis, DynSpec …* |  |
|  |  |
| Number of beams per observation block |  |
| Bandwidth per beam (MHz) |  |
| Frequency coverage (in 10-88 MHz) |  |
| Contiguous or splitted bands ? |  |
| Frequency resolution (kHz) |  |
|  |  |
| Time resolution (sec) |  |
| Observation block duration (min) |  |
| Preliminary Observing strategy / schedule ? |  |
| **Observational constraints** |  |
| Required night observation ? |  |
| Required specific time of year ? |  |
| Allow fractioning observing time ? |  |
| Can the observation be stopped by observatory? |  |
| Allow rescheduling by observatory ? (without consultation) |  |
| Joint observation with other telescopes/facilities? |  |
|  |  |
| **Local storage / Data processing / Data transfer** |  |
| What strategy for data analysis? *e.g. transfer raw/preprocessed data to your home institute, or reduce on the spot, or need local assistance with data reduction…* |  |
| Estimated volume for Early Science (2019-2021) (GB, TB) |  |
| Required local data storage? |  |
| * How much TB?
 |  |
| Request local computing resources? |  |
| * How many nodes?
 |  |
| Estimated time for completion of analysis at CDN (freeing computing resources…) ? |  |
| Need for technical support? |  |
| * For setting up observation ?
* For preprocessing (Flag + t/f rebins) ?
* For calibration ?
* For imaging ?
 |  |
|  |
|  |
|  |